Ancient Lake Bonneville Outlined; Effects on Ogden Given in Detail

LAKE GONNENHEE

O. J. Stilweil of Ogden Chamber of Commerce Continues Geological Discussions

Two weeks the The Stemlard-Examiner published an ordine prepared by O. J. Sillwell, exerctant of the Usden Chamber of Commerce, for teaching local geography in the public schools. The outline is in the form of a series of questions, the publication of which statied a flow of demands from readers for the answers. In last Sunday's issue, Mr. Stilwell

In last Sunday's issue, Mr. Stilwell answered the questions in section "A" of the outline, explaining the cause for the growth and development of Ogden, and comparing with Salt Lake Uity and other I tak towns.

Section "B" of the outline relates entirely to ancient Lake Bonneville, Mr. Stilwell's answers to the questions heing embodied in the following paragraphs:

MANY ISLANDS.

MANY ISLANDS.

Ancient Lake Bonneville contained about the same amount of Iresi water as Lake I ichigan, but differed from Lake Michigan in that it contained many mountainous islands. Lake Bonneville was 246 miles long, 145 miles wide, 1656 feet deep, and covered 19,759 square miles. The chief remaining remnants of the antient lake are Sevier lake, Utah lake and Great Salt lake. The greatest known dimensions of Great Salt lake was in 1869 when its length was 33 miles, width 51 miles, depth 42 feet and area 2170 square miles.

The geologist, Gilbert, estimated

"The geologist Gilbert, estimated the time when the great fresh water lake was here at not less tran 10. 000 years ago, and not more than 25.

"We know there was a great body of water here from the conspicuous shore lines on the mountain sides. chore lines on the mountain sides.

"In trying to determine what became of the lake, the geological survey discovered that the lowest point in the rim of the ancient lake is Red Rock Pass through which the Oregon Short Line railway now makes its way to Pocatello. At this point the lake found an outlet which crained off the point of the lake his been caused by evaporation.

lake, has been caused by evaporation on account of change in climate.

When Lake Bonnevalt was in its glory, it is proceed the Storm Nevada mountains were not so also as they now are, and that much more rain and snow came over from the Pacific opean, also at the close of the Flacia. period, all the country to the north of us was much coher than at pres-ent, resulting in more rain and show

and less evaporation. PRESENT EVAPORATION.

PRESENT EVAPORATION.

"The present evaporation on Great Salt lake is 80 inches per year—on Lake Michigan 22 inches, waith means that if Utah had the climate of Michigan our lakes would raise five feet every year. When Lake Bonneville was here there was a glacier back of Mt. Ogden, and numerous other glaciers in the basin above the lake.

"There are two completions shore lines because the lake atood at its highest point for many years forming the so-called Lake Bonneville increding the so-called Lake Bonneville increding.

the so-called Lake connected more line, and later, after the cutlet had cut down to rock bottom at race Reak Pass, it again recained at that level for a very long period before it commenced to dry also and at that level formed the so-called frow shoreline. Below the Prove line there are many miner lines showing that in its decline it stood stationary for several years at certain levels, but there are no lines between the connection and

With the waters drained off, but

Lake Bonneville, reduced from map by the United States geological survey about toms of lakes are usually the fluest of farming lands. Excepting near the shores, there are no rocas; the deposition of farming lands. Excepting near the shores, there are no rocas; the deposition of the map was printed. Note the ancient lake extended into Nevada on the west, into the first property of Wyoming on the east and within about soil: the drainage is excellent on active map was printed. Note the ancient lake extended into Nevada on the west, into count of the gentle slope away from Idaho on the north, within about forty miles of Wyoming on the east and within about the short towards the center, and irrigation is most easy for the further reasisky miles of Arizona on the south.

such settlements in the rock of the south wall of the canyon may be observed.

FAULTS.

"If the water were drawn from a pond covered with thick lee, the ice would settle and crack in all directions. If on one side of a crack the lee were lifted several inches above the surface and forms land as the lee on the other side of the crack, that crack would be a miniature geolegical fault.

The earth surface is thus cracked that crack the recks on one side of faulted, the rocks on one side of the crack that crack would be a miniature geolegical fault.

The earth surface is thus cracked the rocks on the other side of the crack being raised above the surface and forms land as the present mouth of Weber river. An alluvial fan may be built where a river of faulted, the rocks on one side of the crack being raised above the rocks on the other side.

Such a fault extends all around this valley for many hundreds of miles, the displacement being some which in relation to the present lack. The business part of the lack of the lack of the ancient lake. The delta is semi-directal rounds around a mountain lot springs occur.

This fault evidently extends the rocked matter further on the fault is also evidently gradually down and built the delta farther out of Martin and Mary Larson Morten
The fault is also evidently gradually down and built the delta farther out of Martin and Mary Larson Morten
The fault is also evidently gradually down and built the delta farther out of Martin and Mary Larson Morten-



Offering to Ogden women the opportunity to purchase at remarkably low prices the very finest of winter coats, suits and dresses, this sale opening on Monday morning, November 22, will be marked by decided cuts in prices. Right in the very heart of the buying senson we have decided to reduce these prices to a minimum figure, the lowest we will make this season, to cut them so sharply that every buyer will make a pronounced saving.

Coats of Latest Mode

Our entire extensive line of winter coats is included in this mid-season sale at unusual reductions. The materials are Bolivia, Yalama cloth, duve de laine, silvertone, in all the wanted shades. The regular prices are \$70 to \$85. On sale at

In materials of Bolivia, duve tyne, cordova, silver Up Bolivia; fur trimmed collars and cuffs. The regular prices are \$95 to \$125. On sale at.....

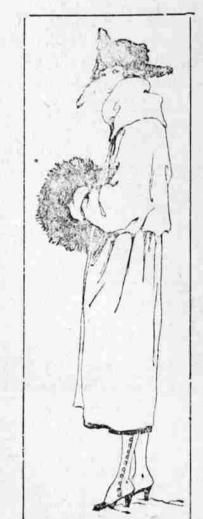
ENTIRE LINE OF SUITS

Because of the wonderful assortment of suits in many styles, colors and cloths, this sale provides an exceptional opportunity for such purchases We are offering all of these suits in three different

Those of tricotine, veldyne, silvertone and fur trimmed in navy, brown fawn and Pekin blue colors, which are \$50 to \$70 values. On sale at.....

Those of duve de laine, tricotine, serge and veldyne, in brown, tan, navy, nankin and blue colors, which are \$60 to \$75 values, on sale at.....

The other lot includes a very wide range of materials and shades, so complete that they must be scen to be fully appreciated. \$90 to \$115 \$59.50 values, on sale at



ATTRACTIVE ONE-PIECE DRESSES

Beautifully beaded trico-

Tricotine and

dresses, values of \$22.50

tine dresses, values to and braided; values of

An exceptional choice of good smart styles, beaded



One Reasonable Charge Only for Examination - Glasses - Service

J. S. LEWIS & CO.

Sealed In Vacuum John Scowcroft & Sons Co.

Manufacturers and Wholesalers Ogden, Utah, Since 1880 rice. Uah